

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-339777

(43)Date of publication of application : 10.12.1999

(51)Int.Cl. H01M 4/04
H01M 4/02
H01M 4/58
H01M 10/40

(21)Application number : 10-142960

(71)Applicant : KAO CORP

(22)Date of filing : 25.05.1998

(72)Inventor : AKAGI RYUICHI

NAKANISHI KUNIYUKI

NISHIMURA TORU

HIRABAYASHI TADASHI

(54) MANUFACTURE OF SECONDARY BATTERY NEGATIVE ELECTRODE

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce the contact resistance between a current collector and a sintered body in a negative electrode containing silicon as active material by baking a coating film containing silicon and a base material consisting of a conductive metal foil or mesh.

SOLUTION: To manufacture a secondary battery negative electrode, a binder and a solvent are added to a negative electrode material containing silicon to prepare a slurry. The slurry is then applied to a base material consisting of a conductive metal foil or mesh, and the solvent is removed to produce a coating film. The coating film is integrated into the base material and sintered by baking under non-oxidizing atmosphere. Since the contact area of the interface between the sintered body and the current collector is increased to integrate them together by baking under non-oxidizing atmosphere, the contact resistance between the sintered body and the current collector can be reduced, and a negative electrode consisting of a thin film improved in conductivity can be provided.

LEGAL STATUS

[Date of request for examination]

13.10.1998

[Date of sending the examiner's decision of

[rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number] 2948205

[Date of registration] 02.07.1999

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office